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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/576,306	04/19/2006	Tomoyuki Kanno	KAW-347-PCT	4487
28892	7590	10/31/2007		
SNIDER & ASSOCIATES P. O. BOX 27613 WASHINGTON, DC 20038-7613			EXAMINER BAISA, JOSELITO SASIS	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/576,306

Applicant(s)

KANNO, TOMOYUKI

Examiner

Joselito Baisa

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 August 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 and 4-6 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1 and 4-6 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 April 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. _____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Honna [6002319] in view of Noboru et al. [JP 06-314624].

Regarding claim 1, 4 and 5 Honna discloses a magnetic core 1 in the primary-side winding, the secondary-side winding and a magnetic-coupling adjusting winding forming a common magnetic path;

a bobbin 3 having a first frame (5a-1 to 5a-5) of the primary-side winding, a second frame (5c-1 to 5c-4) of the secondary-side winding and a third frame (5b- to 5b-2) of the magnetic coupling adjusting winding, in which the third frame is disposed between the first frame and the second frame for adjusting a leakage inductance of the high-voltage transformer by sandwiching the third frame so as to locate the first, second and third frames in the common magnetic path;

wherein a first flange part is provided between the first frame (5a-1 to 5a-5) of the primary-side winding and the third frame (5b- to 5b-2), and a second flange part is provided between the second frame (5c-1 to 5c-4) of the secondary-side winding and the third frame (5b- to 5b-2) of the magnetic-coupling adjusting winding [Col. 3, Lines 25-67, Figure 1].

Honna discloses the instant claimed invention discussed above including a notch part (where the winding of coil 4 passes through) formed in the first flange part or the second flange part located on the lower surface side of the bobbin 3 [see Figure 1] except for a part of one of the primary-side winding and the secondary-side winding is wound around the third frame of the magnetic-coupling adjusting winding.

Noboru discloses a part of one of the primary-side winding 14 and the secondary-side winding 16 is wound around a common location [Abstract, Figure 4].

It would have been obvious to one having ordinary skill in the art at the time of the invention to have a part of one of the primary-side winding and the secondary-side winding is wound around a common location as taught by Noboru to the transformer frame of Honna.

The motivation would have been to obtain an arbitrary coupling coefficient by winding one portion of a primary coil winding over that of a secondary coil winding [Abstract].

Regarding claim 6, Honna discloses pin-shaped terminals 9 for substrate connection are provided for the bobbin 3, pin-shaped terminals extend in one direction substantially orthogonal to a direction in which the frames of the primary-side winding, the magnetic coupling adjusting winding, and the secondary –side winding are arranged [Col. 3, Lines 25-35, Figure 1].

Furthermore, the specific orientation of the bobbin terminals would have been an obvious design consideration based on the intended application.

Response to Argument

Applicant's arguments with respect to claims 1 and 4-6 have been considered but are moot in view of the new ground(s) of rejection.

Honna discloses a magnetic core in the primary-side winding, the secondary-side winding and a magnetic-coupling adjusting winding forming a common magnetic path; a bobbin having a first frame of the primary-side winding, a second frame of the secondary-side winding and a third frame of the magnetic coupling adjusting winding, in which the third frame is disposed between the first frame and the second frame for adjusting a leakage inductance of the high-voltage transformer by sandwiching the third frame so as to locate the first, second and third frames in the common magnetic path.

Noboru a part of one of the primary-side winding and the secondary-side winding are wound around a common location.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be

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calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joselito Baisa whose telephone number is (571) 272-7132. The examiner can normally be reached on M-F 5:30 am to 2:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad can be reached on (571) 272-1990. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

jsb

Joselito Baisa
Examiner
Art Unit 2832


ELVIN ENAD
SUPERVISORY PATENT EXAMINER
2905107